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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28 Oct 21 EVENTLINE has been reloaded
NEWS 29 Oct 24 BEILSTEIN adds new search fields
NEWS 30 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 31 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 32 Nov 18 DKILIT has been renamed APOLLIT
NEWS 33 Nov 25 More calculated properties added to REGISTRY
NEWS 34 Dec 02 TIBKAT will be removed from STN
NEWS 35 Dec 04 CSA files on STN
NEWS 36 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 37 Dec 17 TOXCENTER enhanced with additional content
NEWS 38 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 39 Dec 30 ISMEC no longer available

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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```
=> s nucleic (p) duplex(p) temperature  
L1      211 NUCLEIC (P) DUPLEX (P) TEMPERATURE
```

=> s 11(p)below(p)melting
L2 6 L1(P) BELOW(P) MELTING

```
=> duplicate remove l2  
DUPLICATE PREFERENCE IS 'MEDLINE, BIOSIS, EMBASE'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L2  
L2          0 DUPLICATES REMOVED. 01 DUPLICATES
```

3-1-1

(FILE NUMBER) ENTERED AT 12:32:03 ON 22 JUN 2002

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 12:22:26 ON 09 JAN 2003
L1 211 S NUCLEIC (P) DUPLEX(P) TEMPERATURE
L2 6 S L1(P) BELOW(P) MELTING
L3 2 DUPLICATE REMOVE L2 (4 DUPLICATES REMOVED)

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| Terms | Documents |
|------------|-----------|
| L2 same 35 | 2 |

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side by side**Hit Count** **Set Name**
result set*DB=USPT; PLUR=YES; OP=OR*

| | | | |
|-----------|--------------------------------------|------|-----------|
| <u>L6</u> | L2 same 35 | 2 | <u>L6</u> |
| <u>L5</u> | L2 same 48 | 1 | <u>L5</u> |
| <u>L4</u> | L2 same 40 | 0 | <u>L4</u> |
| <u>L3</u> | L2 same 40 same 48 | 0 | <u>L3</u> |
| <u>L2</u> | L1 same below same melting | 140 | <u>L2</u> |
| <u>L1</u> | nucleic same duplex same temperature | 1466 | <u>L1</u> |

END OF SEARCH HISTORY

L3 ANSWER 1 OF 2 MEDLINE DUPLICATE 1
AN 97465962 MEDLINE
DN 97465962 PubMed ID: 9321670
TI A fiber optic biosensor for fluorimetric detection of triple-helical DNA.
AU Uddin A H; Piunno P A; Hudson R H; Damha M J; Krull U J
CS Department of Chemistry, Otto Maas Chemistry Building, McGill University, Montreal, Quebec H3A 2K6, Canada.
SO NUCLEIC ACIDS RESEARCH, (1997 Oct 15) 25 (20) 4139-46.
Journal code: 0411011. ISSN: 0305-1048.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199712
ED Entered STN: 19980109
Last Updated on STN: 19990129
Entered Medline: 19971202
AB A fiber optic biosensor was used for the fluorimetric detection of T/AT triple-helical DNA formation. The surfaces of two sets of fused silica optical fibers were functionalized with hexaethylene oxide linkers from which decaadenylic acid oligonucleotides were grown in the 3' to 5' and 5' to 3' direction, respectively, using a DNA synthesizer. Fluorescence studies of hybridization showed unequivocal hybridization between oligomers immobilized on the fibers and complementary oligonucleotides from the solution phase, as detected by fluorescence from intercalated ethidium bromide. The complementary oligonucleotide, dT10, which was expected to Watson-Crick hybridize upon cooling the system **below** the **duplex melting temperature** (T_m), provided a fluorescence intensity with a negative **temperature** coefficient. Upon further cooling, to the point where the pyrimidine motif T*AT triple-helix formation occurred, a fluorescence intensity change with a positive **temperature** coefficient was observed. The reverse-Hoogsteen T.AT triplex, which is known to form with branched nucleic acids, provided a corresponding decrease in fluorescence intensity with decreasing **temperature**. Full analytical signal evolution was attainable in minutes.

L3 ANSWER 2 OF 2 MEDLINE DUPLICATE 2
AN 92253408 MEDLINE
DN 92253408 PubMed ID: 1579489
TI Properties of pseudouridine N1 imino protons located in the major groove of an A-form RNA duplex.
AU Hall K B; McLaughlin L W
CS Department of Biochemistry and Molecular Biophysics, Washington University School of Medicine, St Louis, MO 63110.
NC GM37065 (NIGMS)
SO NUCLEIC ACIDS RESEARCH, (1992 Apr 25) 20 (8) 1883-9.
Journal code: 0411011. ISSN: 0305-1048.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199206
ED Entered STN: 19920619
Last Updated on STN: 19970203
Entered Medline: 19920605
AB The exchangeable N1 imino protons of two pseudouridine (psi) bases located at adjacent internal positions within an undecamer RNA **duplex** (5'AUAC psi psi ACCUG/3'UAUGAAUGGUC) can report on the environment of the major groove of an A-form double-stranded **nucleic** acid. The psi N1 imino protons of these residues (which are not involved in interstrand Watson-Crick hydrogen bonding) are protected from chemical exchange with the solvent water and thus are observable in the proton NMR spectrum in

H₂O (1). These protons will exchange readily at increased pH values or upon thermal denaturation of the **duplex**. The longitudinal (T₁) relaxation times of the psi N1 imino protons in 100 mM NaCl or in 10 mM MgCl₂ and 100 mM NaCl are approximately two-fold faster than those of the psi N3 imino protons which are involved in Watson-Crick base pairing. With the addition of spermidine, the psi N1 imino protons become readily exchangeable at a **temperature** some 20 degrees C **below** the **melting temperature** of the **duplex**.

=>